



## W785: Data Standards for Plant Phenotyping: MIAPPE and its Implementations

**Sunday, January 14, 2018**

**08:36 AM - 08:54 AM**

📍 *Pacific Salon 3*

Plant Phenotyping data management following the FAIR (Findable, Accessible, Interoperable, Resusable) is highly challenging because of its heterogeneity. Thus, simply integrating and consolidating data within a single dataset like a phenotyping network is already a complicated task which is even more complex when trying to link different datasets together. To address this problem, the Minimal Information About Plant Phenotyping Experiment standard construction has been initiated four years ago, with the help of experts from European infrastructures and institutes like Elixir, Emphasis, INRA, WUR, iBet, IPK, EBI and IPG PAS. It addresses the need of data publication and reuse through a checklist that formalize and document the minimal metadata necessary to ensure long term FAIRness of field or greenhouse datasets, including high throughputs phenotyping ones.

This list has been implemented in several databases like GnPIS or eDale, in a file format, ISA Tab, in a web service, the Breeding API and an RDF implementation is under construction. We will review those implementations, show its current adoption state and detail the plans for the future evolutions of the standard.

### Authors

#### Cyril Pommier

*URGI, INRA, Université Paris-Saclay*

#### Guillaume Cornut

*INRA - URG*

#### Thomas Letellier

*URGI*

#### Célia Michotey

*URGI, INRA, Université Paris-Saclay*

#### Pascal Neveu

*INRA - MISTEA*

#### Manuel Ruiz

*CIRAD, UMR AGAP*

#### Pierre Larmande

*IRD, UMR DIADE, Institut de Biologie Computationnelle*

#### Paul J. Kersey

*EMBL - The European Bioinformatics Institute*

#### Hanna Cwiek

*Institute of Plant Genetics, Polish Academy of Science*

#### Paweł Krajewski

*Department of Biometry and Bioinformatics, Institute of Plant Genetics, Polish Academy of Sciences*

#### Frederik Coppens

*VIB*

#### Richard Finkers

*Wageningen UR Plant Breeding*

#### Marie-Angélique Laporte

*Bioversity International*

#### Daniel Faria

*IGC*

#### Célia M. Miguel

*ITQB NOVA*

#### Ines Chavez

*IBET NOVA*

#### Anne-Francoise Adam-Blondon

*URGI, INRA, Université Paris-Saclay*

#### Bruno Costa

*ITQB NOVA*



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